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(51) International Patent Classification ⁶: A61K 31/55, 31/495, 31/47, 31/445	A1	(11) International Publication Number: WO 99/32125 (43) International Publication Date: 1 July 1999 (01.07.99)
(21) International Application Number: PCT/US98/26223 (22) International Filing Date: 21 December 1998 (21.12.98) (30) Priority Data: <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> 60/068,638 60/078,638 </div> <div style="text-align: left;"> 23 December 1997 (23.12.97) 19 March 1998 (19.03.98) </div> <div style="text-align: left;"> US US </div> </div> (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> US Filed on US Filed on </div> <div style="text-align: left;"> 60/078,638 (CIP) 19 March 1998 (19.03.98) 60/068,638 (CIP) 23 December 1997 (23.12.97) </div> </div> (71) Applicant (for all designated States except US): SCHERING CORPORATION [US/US]; 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): JENSEN, Peder, K. [DK/US]; 40 Gatehouse Road, Bedminster, NJ 07921 (US). LORBER, Richard, R. [US/US]; 9 Michael Lane, Scotch Plains, NJ 07076 (US). DANZIG, Melvyn, R. [US/US]; 8 Lake Louise Road, Morganville, NJ 07751 (US).	MEDEIROS, Paul, T. [US/US]; 248 Taylor Avenue, Easton, PA 18042 (US). (74) Agents: MAJKA, Joseph, T. et al.; Schering-Plough Corporation, Patent Dept., K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: COMPOSITION FOR TREATING RESPIRATORY AND SKIN DISEASES, COMPRISING AT LEAST ONE LEUKOTRIENE ANTAGONIST AND AT LEAST ONE ANTIHISTAMINE		
(57) Abstract <p>A pharmaceutical composition useful in the treatment of sneezing, itching runny nose, nasal congestion, redness of the eye, tearing, itching of the ears or palate, shortness of breath, inflammation of the bronchial mucosa, reduced Forced Expiratory Volume In One Second (FEV₁), coughs, rash, itchy skin, headaches, and aches and pains associated with seasonal allergic rhinitis, perennial allergic rhinitis, common colds, otitis, sinusitis, allergy, asthma, allergic asthma and/or inflammation, in a mammalian organism in need of such treatment. The composition comprises: i) an effective amount of at least one leukotriene antagonist selected from a) montelukast, b) 1-(((R)- (3-(2-(6,7- difluoro-2- quinolinyl)ethenyl) phenyl)-3-(2- (2-hydroxy-2- propyl)phenyl) thio)methylcyclopropaneacetic acid; c) 1-(((1(R)-3 (3-(2-(2,3- dichlorothiemo[3, 2-b]pyridin-5-yl) -(E)-ethenyl)phenyl) -3-(2-(1-hydroxy-1- methylethyl) phenyl)propyl) thio)methyl) cyclopropaneacetic acid; d) pranlukast; or f) 2-[[2-(4-<i>tert</i> -butyl-2-thiazolyl) -5-benzofuranyl] oxymethyl]phenyl] acetic acid; or a pharmaceutically acceptable salt thereof; in admixture with ii) an effective amount of at least one antihistamine which is descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole, norastemizole, epinastine, efletirizine or a pharmaceutically acceptable salt thereof.</p>		

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COMPOSITION FOR TREATING RESPIRATORY AND SKIN DISEASES, COMPRISING AT LEAST ONE LEUKOTRIENE ANTAGONIST AND AT LEAST ONE ANTIHISTAMINE

5

BACKGROUND OF THE INVENTION

The present invention relates to compositions for treating allergic rhinitis and other allergic diseases. The products of the 5-lipoxygenase pathway of arachidonic acid metabolism, particularly the leukotrienes, can mediate
 10 bronchoconstriction, mucous secretion, airway mucosal edema, chemotaxis and mobilization of cells into the airway in the inflammatory process of asthma. Although useful, leukotriene antagonists, in and of themselves, are not capable of effectively treating the multitude of symptoms that may be associated with disease of the respiratory tract, such as season allergic
 15 rhinitis, perennial allergic rhinitis, common colds, sinusitis and concomittant symptoms associated with allergic asthma. The symptoms of such diseases may include sneezing, itching runny nose, nasal congestion, redness of the eye, tearing, itching of the ears or palate, and coughs associated with postnasal drip. It would be highly desirable to enhance the
 20 efficacy of such leukotriene antagonists to improve their overall efficacy.

SUMMARY OF THE INVENTION

In one embodiment, the present invention is directed towards a pharmaceutical composition comprising:


- 25 i) an effective amount of at least one leukotriene antagonist which is
- X a) montelukast,
 - b) 1-(((R)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(2-hydroxy-2-propyl)phenyl)thio)methylcyclopropaneacetic acid;
 - c) 1-(((1(R)-3(3-(2-(2,3-dichlorothieno[3,2-b]pyridin-5-yl)-(E)-ethenyl)phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl)cyclopropaneacetic acid;
 - 30 d) pranlukast;
 - e) zafirlukast; or
 - f) [2-[[2-(4-*tert*-butyl-2-thiazolyl)-5-benzofuranyl]oxymethyl]phenyl]acetic
 35 acid;

or a pharmaceutically acceptable salt thereof; in admixture with

ii) an effective amount of at least one antihistamine which is
descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole,
norastemizole, epinastine, efletirizine or a pharmaceutically acceptable salt
5 thereof.

Preferably the pharmaceutical composition is designed for oral
administration. Preferably the leukotriene antagonist is montelukast and the
pharmaceutically acceptable salt of monoleukast is montelukast sodium.

10 Also preferred is that the pharmaceutically acceptable salt of monoleukast is
about 10 milligrams (mg). Most preferably the antihistamine is
descarboethoxyloratidine. Preferably, a pharmaceutically acceptable salt of
cetirizine or fexofenadine is the hydrochloride salt. Also preferred is that
descarboethoxyloratidine or cetirizine is about 2.5 to about 20 mg, more
15 preferably about 5, 7.5 or 10 mg. Preferably, fexofenadine is from about 60
to 180 mg. More preferably, the pharmaceutically acceptable salt of
monteleukast is about 10 mg and descarboethoxyloratidine is about 5 or 7.5
mg.

 Optionally, the pharmaceutical composition can further comprise a
20 third active ingredient which can be:
iii) a decongestant (such as pseudoephedrine), a cough suppressant (such
as dextromethorphan), an expectorant/mucolytic (such as guaifenesin),
NSAIDs or analgesics (such as aspirin, acetaminophen and phenacetin).

The present invention is useful for treating diseases of the skin, the
25 respiratory tract and/or concomittant symptoms associated therewith, in a
mammal, in need of such treatment, comprising administering to said
mammal a pharmaceutical composition as described above. Skin diseases
include atopic dermatitis, psoriasis and chronic idiopathic urticaria,
otherwise known as itchy skin and/or hives. Diseases of the respiratory tract
30 include seasonal allergic rhinitis, perennial allergic rhinitis, common colds,
otitis, sinusitis, allergy, asthma, allergic asthma and/or inflammation.
Symptoms associated with diseases of the respiratory tract include
sneezing, itching and/or runny nose, nasal congestion; redness, tearing or
itching of the eye; itching of the ears or palate, shortness of breath,
35 inflammation of the bronchial mucosa, reduced Forced Expiratory Volume In

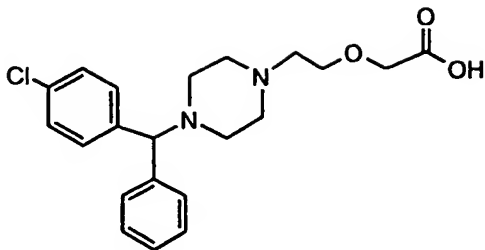
One Second (FEV₁), coughs, rash, hives, itchy skin, headaches, and aches and pains. Descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole, norastemizole, epinastine, efletirifine or a pharmaceutically acceptable salt thereof and a leukotriene antagonist or pharmaceutically acceptable salt thereof may be administered either either substantially concurrently in separate dosage forms or combined in a unit dosage form as described for the pharmaceutical composition above. Preferably the mammal is a human. Preferably, the separate dosage forms and the unit dosage form of the above pharmaceutical composition are designed for oral administration. Preferably the separate dosage forms and the unit dosage form comprise 5 or 7.5 mg of descarboethoxyloratidine and 10 mg of montelukast sodium.

DETAILED DESCRIPTION OF THE EMBODIMENTS

Antihistamines

Descarboethoxyloratidine (DCL) is non-sedating antihistamine, whose technical name is 8-chloro-6,11-dihydro-11-(4-piperidylidene)-5H-benzo[5,6]cyclohepta[1,2]pyridine. This compound is described in Quercia, et al., Hosp. Formul., 28: 137-53 (1993), in U.S. Patent 4,659,716, and in WO 96/20708. DCL is an antagonist of the H-1 histamine receptor protein. The H-1 receptors are those that mediate the response antagonized by conventional antihistamines. H-1 receptors are present, for example, in the ileum, the skin, and the bronchial smooth muscle of man and other mammals. The amount of DCL which can be employed in a unit (i.e. single) dosage form of the present compositions can range from about 2.5 to about 20 mg, also from about 5 to about 10 mg, preferably about 5 or 7.5 mg.

Cetirizine is an antihistamine, whose technical name is (±)-[2-[4-(p-chloro-α-phenylbenzyl)-1-piperazinyl]ethoxy]acetic acid. Preferably the pharmaceutically acceptable salt is the hydrochloride, also known as cetirizine hydrochloride. The chemical structure of this compound is as follows:



The amount of cetirizine which can be employed in a unit dosage form of the present composition can range from about 2.5 to 20 mg, also from about 5 to about 10 milligrams, preferably about 10 milligrams.

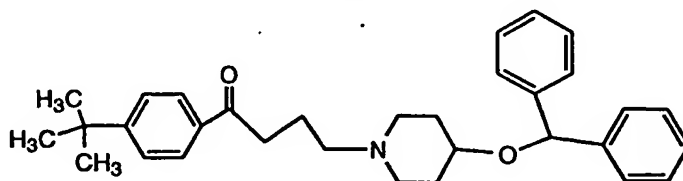
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Fexofenadine (MDL 16,455A) is a non-sedating antihistamine, whose technical name is 4-[1-hydroxy-4-(4-hydroxy-diphenylmethyl)-1-piperidiny]butyl]- α,α -dimethyl-benzene acetic acid. Preferably the pharmaceutically acceptable salt is the hydrochloride, also known as fexofenadine hydrochloride. The amount of fexofenadine which can be employed in a unit dosage form of the present composition can range from about 40 to 200 mg, also from about 60 to about 180 milligrams, also about 120 milligrams.

10

15

Ebastine is an antihistamine, whose technical name is 1-[4-(1,1-dimethylethyl)phenyl]-4-[4-(diphenylmethoxy)-1-piperidiny]-1-butanone. CAS90729-43-4. The compound is described in EP134124. The chemical structure for this compound is as follows:

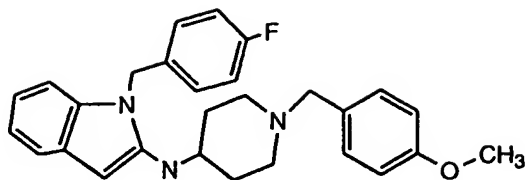


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The amount of ebastine which can be employed in a unit dosage form can range from about 5 to about 20 mg, preferably about 10 mg.

25

Astemizole is an antihistamine, whose technical name is 1-[(4-fluorophenyl)methyl]-N-[1-[2-(methoxyphenyl)ethyl]-4-piperidiny]-1H-benzimidazol-2-amine. CAS 68844-77-9. The compound is described in US 4,219,559. The chemical structure for this compound is as follows:

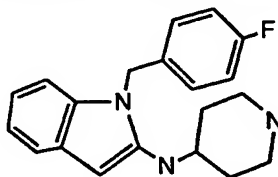


The amount of astemizole which can be employed in a unit dosage form can range from about 5 to about 20 mg, preferably about 10 mg.

5



Norastemizole is an antihistamine, whose technical name is 1-((4-fluorophenyl)methyl)-N-4-piperidinyl-1H-benzimidazol-2-amine. CAS 75970-99-9. The compound is an active metabolite of astemizole. The chemical structure for this compound is as follows:



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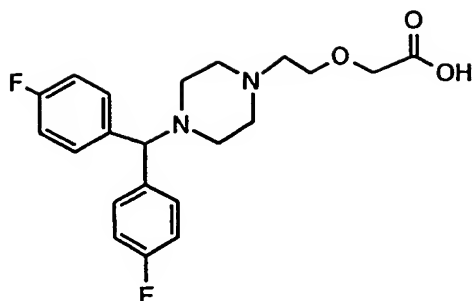
The amount of norastemizole which can be employed in a unit dosage form can range from about 5 to about 40 mg, also from about 10 to about 20 mg.

15 Epinastine is an antihistamine, whose technical name is 9,13b-dihydro-1H-dibenz[c,f]imidazo[1,5-a]azepin-3-amine. CAS80012-43-7. The compound may be described in DE3008944 or Jpn. J. Clin. Pharmacol Ther, 1991, 22, page 617. The chemical structure for this compound is as follows:



20 The amount of epinastine which can be employed in a unit dosage form can range from about 1 to about 20 mg, preferably about 2 to about 18 mg.

Efletirizine (UCB-28754) is an antihistamine, whose technical name is [2-[4-[Bis(p-fluorophenyl)methyl]-1-piperazinyl]ethoxy]acetic acid. CAS140756-35-7. Th chemical structure for this compound is as follows:



The amount of efletirizine which can be employed in a unit dosage form can range from about 4 to about 60 mg.

Leukotriene Antagonists

- 5 In addition to and/or in lieu of the amounts cited for any particular compound, the amount of leukotriene antagonist which can be employed in a unit dosage form can range from about 5 to about 500 milligrams, also from about 50 to about 300 milligrams, also from about 100 to about 200 milligrams.
- 10 Montelukast is a leukotriene D4 antagonist capable of antagonizing the receptors for the cysteinyl leukotrienes. The technical name of montelukast is [R-(E)]-1-[[[1-[3-[2-(7-chloro-2-quinoliny)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic acid. This compound is described in EP 480,717. A preferred pharmaceutically
- 15 acceptable salt of montelukast is the monosodium salt, also known as montelukast sodium. The amount of montelukast which can be employed in a unit dosage form of the present invention can range from about one to 100 milligrams, also from about 5 to about 20 milligrams, preferably about 10 milligrams.
- 20 The compound 1-(((R)-(3-(2-(6,7-difluoro-2-quinoliny)ethenyl)phenyl)-3-(2-(2-hydroxy-2-propyl)phenyl)thio)methylcyclopropaneacetic acid is a leukotriene antagonist described in WO 97/28797 and U.S. Patent 5,270,324. A pharmaceutically acceptable salt of this compound is the sodium salt, also known as sodium 1-(((R)-(3-(2-(6,7-difluoro-2-quinoliny)ethenyl)phenyl)-3-(2-
- 25 (2-hydroxy-2-propyl)phenyl)thio)methylcyclopropaneacetate.

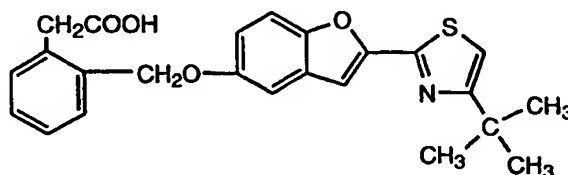
The compound 1-(((1(R)-3(3-(2-(2,3-dichlorothieno[3,2-b]pyridin-5-yl)-(E)-ethenyl)phenyl)-3-(2-(1-hydroxy-1-

methylethyl)phenyl)propyl)thio)methyl)cyclopropaneacetic acid is a leukotriene antagonist described in WO 97/28797 and U.S. Patent 5,472,964. A pharmaceutically acceptable salt of this compound is the sodium salt, also known as sodium 1-(((1(R)-3(3-(2-(2,3-dichlorothieno[3,2-b]pyridin-5-yl)-(E)-ethenyl)phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl)cyclopropaneacetate.

Pranlukast is a leukotriene antagonist described in WO 97/28797 and EP173,516. The technical name for this compound is N-[4-oxo-2-(1H-tetrazol-5-yl)-4H-1-benzopyran-8-yl]-p-(4-phenylbutoxy)benzamide. The amount of pranlukast which can be employed in a unit dosage form can range from about 100 to about 700 mg, preferably from about 112 to about 675 mg; also from about 225 mg to about 450 mg; also from about 225 to about 300 mg.

Zafirlukast is a leukotriene antagonist described in WO 97/28797 and EP 199,543. The technical name for this compound is cyclopentyl-3-[2-methoxy-4-[(o-tolylsulfonyl)carbamoyl]benzyl]-1-methylindole-5-carbamate.

The compound [2-[[2-(4-*tert*-butyl-2-thiazolyl)-5-benzofuranyl]oxymethyl]phenyl]acetic acid is a leukotriene antagonist and/or inhibitor whose method for preparation is described in U.S. Patent 5,296,495 and Japanese patent JP08325265 A. An alternative name for this compound is 2-[[[2-[4-(1,1-dimethylethyl)-2-thiazolyl]-5-benzofuranyl]oxy]methyl]-benzeneacetic acid. The code number for this compound is FK011 or FR150011. The compound has a molecular formula of C₂₄H₂₃NO₄S and molecular weight of 421.52. The chemical structure for this compound is as follows:



The pharmaceutical compositions of the present invention can be administered depending upon the patient's age, sex, weight and severity of the condition being treated. Generally, the human oral dosage form containing descarboethoxyloratidine, cetirizine, fexofenadine, ebastine,

astemizole, norastemizole, epinastine, efletirizine or a pharmaceutically acceptable salt thereof and the leukotriene antagonist can be administered 1 or 2 times per day.

5 The following table sets forth preferred combinations of a leukotriene antagonist and antihistamine.

Leukotriene Antagonist + Antihistamine

Montelukast + Descarboethoxyloratidine

Pranlukast + Descarboethoxyloratidine

Montelukast + Cetirizine

Pranlukast + Cetirizine

Montelukast + Fexofenadine

Pranlukast + Fexofenadine

Montelukast + Ebastine

Pranlukast + Ebastine

Montelukast + Norastemizole

Pranlukast + Norastemizole

Montelukast + Eftirizine

Pranlukast + Eftirizine

- The term "NSAID" as used herein is intended to mean any non-narcotic analgesic non-steroidal anti-inflammatory compound, including the pharmaceutically acceptable salts thereof, falling within one of five structural classes but excluding aspirin, acetaminophen and phenacetin, as follows:
- 1) The propionic acid derivatives such as ibuprofen, naproxen, flurbiprofen, fenoprofen, ketoprofen, fenbufen and fluprofen;
 - 2) The acetic acid derivatives such as tolmetin sodium sulindac and
15 indomethacin;
 - 3) The fenamic acid derivatives such as mefenamic acid and meclofenamate sodium;
 - 4) The biphenylcarboxylic acid derivatives such as diflunisal and flufenisal;
and
 - 20 5) The oxicams such as piroxicam, sudoxicam and isoxicam.

Analgesics are drugs or compounds that relieve pain, including aspirin, acetaminophen and phenacetin.

In the pharmaceutical compositions and methods of the present invention, the foregoing active ingredients will typically be administered in admixture with suitable pharmaceutical diluents, excipients or carriers (collectively referred to herein as carrier materials) suitably selected with respect to the intended form of administration, i.e. oral tablets, capsules (either solid-filled, semi-solid filled or liquid filled), powders for constitution, oral gels, elixirs, syrups, suspensions, solutions, nasal sprays, ophthalmic drops, oral drops, topical creams and the like, and consistent with conventional pharmaceutical practises. For example, for oral administration in the form of tablets or capsules, the active drug component may be combined with any oral non-toxic pharmaceutically acceptable inert carrier, such as lactose, starch, sucrose, cellulose, magnesium stearate, dicalcium phosphate, calcium sulfate, mannitol, ethyl alcohol (liquid forms) and the like. Moreover, when desired or needed, suitable binders, lubricants, disintegrating agents and coloring agents may also be incorporated in the mixture. Suitable binders include starch, gelatin, natural sugars, corn sweeteners, natural and synthetic gums such as acacia, sodium alginate, carboxymethylcellulose, polyethylene glycol and waxes. Among the lubricants there may be mentioned for use in these dosage forms, boric acid, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrants include starch, methylcellulose, guar gum and the like. Sweetening and flavoring agents and preservatives may also be included where appropriate.

Additionally, the compositions of the present invention may be formulated in sustained release form to provide the rate controlled release of any one or more of the components or active ingredients to optimize the therapeutic effects, ie. leukotriene antagonism, antihistaminic and the like. Suitable dosage forms for sustained release include layered tablets containing layers of varying disintegration rates or controlled release polymeric matrices impregnated with the active components and shaped in tablet form or capsules containing such impregnated or encapsulated porous polymeric matrices.

Dosage form - composition descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole, norastemizole, epinastine, efletirizine or

a pharmaceutically acceptable salt thereof and leukotriene antagonist formulated into a delivery system, i.e., tablet, capsule, oral gel, powder for constitution or suspension in association with inactive ingredients.

- 5 Capsule - refers to a special container or enclosure made of methyl cellulose, polyvinyl alcohols, or denatured gelatins or starch for holding or containing compositions comprising descarboethoxyloratidine, cetirizine or fexofenadine and leukotriene antagonist. Hard shell capsules are typically made of blends of relatively high gel strength bone and pork skin gelatins.
- 10 The capsule itself may contain small amounts of dyes, opaquing agents, plasticizers and preservatives.

- Tablet- refers to a compressed or molded solid dosage form containing the active ingredients (descarboethoxyloratidine, cetirizine or fexofenadine and leukotriene antagonist) with suitable diluents. The tablet
- 15 can be prepared by compression of mixtures or granulations obtained by wet granulation, dry granulation or by compaction.

 Oral gels-refers to descarboethoxyloratidine, cetirizine or fexofenadine and leukotriene antagonist dispersed or solubilized in a hydrophillic semi-solid matrix.

- 20 Powders for constitution refers to powder blends containing descarboethoxyloratidine, cetirizine or fexofenadine and leukotriene antagonist and suitable diluents which can be suspended in water or juices.

- Diluent - refers to substances that usually make up the major portion of the composition or dosage form. Suitable diluents include sugars
- 25 such as lactose, sucrose, mannitol and sorbitol; starches derived from wheat, corn rice and potato; and celluloses such as microcrystalline cellulose. The amount of diluent in the composition can range from about 10 to about 90% by weight of the total composition, preferably from about 25 to about 75%, more preferably from about 30 to about 60% by weight, even
- 30 more preferably from about 12 to about 60%.

 Disintegrants - refers to materials added to the composition to help it break apart (disintegrate) and release the medicaments. Suitable disintegrants include starches; "cold water soluble" modified starches such

as sodium carboxymethyl starch; natural and synthetic gums such as locust bean, karaya, guar, tragacanth and agar; cellulose derivatives such as methylcellulose and sodium carboxymethylcellulose; microcrystalline celluloses and cross-linked microcrystalline celluloses such as sodium

5 croscarmellose; alginates such as alginic acid and sodium alginate; clays such as bentonites; and effervescent mixtures. The amount of disintegrant in the composition can range from about 2 to about 15% by weight of the composition, more preferably from about 4 to about 10% by weight.

Binders - refers to substances that bind or "glue" powders together

10 and make them cohesive by forming granules, thus serving as the "adhesive" in the formulation. Binders add cohesive strength already available in the diluent or bulking agent. Suitable binders include sugars such as sucrose; starches derived from wheat, corn rice and potato; natural gums such as acacia, gelatin and tragacanth; derivatives of seaweed such

15 as alginic acid, sodium alginate and ammonium calcium alginate; cellulosic materials such as methylcellulose and sodium carboxymethylcellulose and hydroxypropylmethylcellulose; polyvinylpyrrolidone; and inorganics such as magnesium aluminum silicate. The amount of binder in the composition can range from about 2 to about 20% by weight of the composition, more

20 preferably from about 3 to about 10% by weight, even more preferably from about 3 to about 6% by weight.

Lubricant - refers to a substance added to the dosage form to enable the tablet, granules, etc. after it has been compressed, to release from the mold or die by reducing friction or wear. Suitable lubricants include metallic

25 stearates such as magnesium stearate, calcium stearate or potassium stearate; stearic acid; high melting point waxes; and water soluble lubricants such as sodium chloride, sodium benzoate, sodium acetate, sodium oleate, polyethylene glycols and d'l-leucine. Lubricants are usually added at the very last step before compression, since they must be present on the

30 surfaces of the granules and in between them and the parts of the tablet press. The amount of lubricant in the composition can range from about 0.2 to about 5% by weight of the composition, preferably from about 0.5 to about 2%, more preferably from about 0.3 to about 1.5% by weight.

Glidants - materials that prevent caking and improve the flow characteristics of granulations, so that flow is smooth and uniform. Suitable glidants include silicon dioxide and talc. The amount of glident in the composition can range from about 0.1% to about 5% by weight of the total composition, preferably from about 0.5 to about 2% by weight.

Coloring agents - excipients that provide coloration to the composition or the dosage form. Such excipients can include food grade dyes and food grade dyes adsorbed onto a suitable adsorbent such as clay or aluminum oxide. The amount of the coloring agent can vary from about 0.1 to about 5% by weight of the composition, preferably from about 0.1 to about 1%.

Bioavailability - refers to the rate and extent to which the active drug ingredient or therapeutic moiety is absorbed into the systemic circulation from an administered dosage form as compared to a standard or control.

Conventional methods for preparing tablets are known. Such methods include dry methods such as direct compression and compression of granulation produced by compaction, or wet methods or other special procedures.

WHAT IS CLAIMED IS:

1. A pharmaceutical composition comprising:

i) an effective amount of at least one leukotriene antagonist selected from

5 a) montelukast,

b) 1-(((R)-3-(2-(6,7-difluoro-2-quinoliny)ethenyl)phenyl)-3-(2-(2-hydroxy-2-propyl)phenyl)thio)methylcyclopropaneacetic acid;

10 c) 1-(((1(R)-3(3-(2-(2,3-dichlorothieno[3,2-b]pyridin-5-yl)-(E)-ethenyl)phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl)cyclopropaneacetic acid;

d) pranlukast; or

e) zafirlukast; or

f) [2-[[2-(4-*tert*-butyl-2-thiazolyl)-5-benzofuranyl]oxymethyl]phenyl]acetic acid;

15 or a pharmaceutically acceptable salt thereof; in admixture with

ii) an effective amount of at least one antihistamine which is

descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole, norastemizole, epinastine, efletirizine or a pharmaceutically acceptable salt thereof.

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2. The pharmaceutical composition of claim 1 wherein the leukotriene antagonist is a) montelukast and the antihistamine is descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, norastemizole or efletirizine.

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3. The pharmaceutical composition of claim 2 wherein the antihistamine is descarboethoxyloratidine.

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4. The pharmaceutical composition of claim 2 wherein said montelukast is about 10 milligrams and said descarboethoxyloratidine is about 5 or 7.5 milligrams.

5. The pharmaceutical composition of claim 1 wherein the leukotriene antagonist is d) pranlukast and the antihistamine is descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, norastemizole or efletirizine.
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6. The pharmaceutical composition of claim 5 wherein the antihistamine is descarboethoxyloratidine.
7. The pharmaceutical composition of claim 1 or 5 further comprising a third active ingredient which can be:
- 10 iii) a decongestant, a cough suppressant, an expectorant/mucolytic or an analgesic.
8. The pharmaceutical composition of claim 7 wherein the decongestant is ~~1/2~~ pseudoephedrine.
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9. The pharmaceutical composition of claim 7 wherein said cough suppressant is dextromethorphan.
10. The pharmaceutical composition of claim 7 wherein the expectorant/mucolytic is guaifenesin.
11. A method for treating diseases of the skin, the respiratory tract and/or concomittant symptoms associated therewith, in a mammal, comprising administering to said mammal a pharmaceutical composition of claim 1.
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12. Use of the composition of any of claims 1-10 for the manufacture of a medicament useful for treating diseases of the skin, the respiratory tract and/or concomittant symptoms associated therewith in a mammal.